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Porous film useful as back sheet for disposable diaper, hygienic napkin, medical clothes, etc., is formed from resin comprising ethylene-alpha-olefin copolymers, branched polyethylene, and inorganic filler

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Abstract (Basic): JP 2001261868 A

NOVELTY - A porous film is formed from a resin composition comprising (A) an ethylene-alpha-olefin copolymer, (B) an ethylene-alpha-olefin copolymer, (C) branched low density polyethylene, and (D) an inorganic filler.

DETAILED DESCRIPTION - A porous film is formed from a resin composition comprising (wt.%):

(A) an ethylene-alpha-olefin copolymer with a melt index of 0.5-10 g/10 min and a density of 0.905-0.945 g/cm³ produced using metallocene catalyst (20-98);

(B) an ethylene-alpha-olefin copolymer with a melt index of 0.5-10 g/10 min and a density of 0.905-0.945 g/cm³ produced using a Ziegler catalyst (1-79);

(C) branched low density polyethylene with a melt index of 0.1-10 g/10 min and a density of 0.91-0.935 g/cm³ (1-8); and

(D) an inorganic filler (50-500 per 100 parts by weight of the resin).

It has a melt tension of 0.5 - 4 g and melt elongation of at least 800 % at 190 degreesC and at take up speed of 200 m/min.

AN INDEPENDENT CLAIM is also included for method for producing the porous film comprising:

(1) blending and melting the resin composition at 200 - 280 degreesC;

(2) forming film and drawing it in at least one direction 1.1 - 4 times at temperature range of room temperature;

(3) softening temperature of the resin and then cooling it to near room temperature; and

(4) winding the film at maximum speed of 300 m/min.

USE - The porous film is useful as back sheet for disposable diaper, hygienic napkin, medical clothes, water proofing material, packaging material for foods, deoxygenating agent, etc.

ADVANTAGE - The film has no defect after winding at high speed.
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